FCC TEST REPORT

Report No: STS1911261W02

Issued for

GODOX PHOTO EQUIPMENT CO.LTD

19th Floor,Room 1902,Building Jinshan,5033 Shennan,East Road,Luohu District,Shenzhen 518001,China

Product Name:	Remote Control
Brand Name:	Godox
Model Name:	RC-A6
Series Model:	N/A
FCC ID:	2ABYN007
Test Standard:	FCC Part 15.249

Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ
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TEST RESULT CERTIFICATION

Applicant's Name ..... :	GODOX PHOTO EQUIPMENT CO.LTD
Address ..... :	19th Floor,Room 1902,Building Jinshan,5033 Shennan,East Road,Luohu District,Shenzhen 518001,China
Manufacture's Name ..... :	GODOX Photo Equipment Co.,Ltd.
Address ..... :	1st to 4th Floor,Building 2/1st to 4th Floor,Building 4 ,Yaochuan Industrial Zone,Tangwei Community,Fuhai Street,Baoan District,Shenzhen 518103,China

Product Description

Product Name ..... :	Remote Control
Brand Name ..... :	Godox
Model Name ..... :	RC-A6
Series Model ..... :	N/A
Test Standards..... :	FCC Part15.249
Test Procedure ..... :	ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Date of Test ..... :	
Date of performance of tests .. :	21 Nov. 2019~26 Nov. 2019
Date of Issue ..... :	28 Nov. 2019
Test Result..... :	**Pass**

Testing Engineer : 

(Chris Chen)

Technical Manager : 

(Sunday Hu)

Authorized Signatory : 

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	28 Nov. 2019	STS1911261W02	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249 , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.203	Antenna Requirement	Pass	
15.249 a) d)	Radiated Spurious Emission	Pass	
15.205 15.209	Radiated Band Edge Emission	Pass	
15.215	20dB Bandwidth	Pass	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2)All tests are according to ANSI C63.10-2013

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District,Bao'an District, Shenzhen, Guang Dong, China
FCC test Firm Registration Number: 625569
IC test Firm Registration Number: 12108A
A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 30-1GHz	±6.7dB
4	All emissions, radiated 1G-6GHz	±5.5dB
5	All emissions, radiated>6G	±5.8dB
6	Conducted Emission (9KHz-150KHz)	±4.43dB
7	Conducted Emission (150KHz-30MHz)	±5dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Remote Control
Trade Name	Godox
Model Name	RC-A6
Series Model	N/A
Model Difference	N/A
Product Description	The EUT is a Remote Control Operation Frequency: 2412.999634-2464.499756MHz Modulation Type: MSK Antenna Designation: PCB Antenna Antenna Gain(Peak): 0 dBi Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Please refer to the Note 2.
Power Rating	Input: DC3V(2*AAA)
Battery	Rated Voltage: Dry battery 1 1.5v 2 batteries 3V
Hardware version number	20190805C01 REV:1.1
Software version number	V1.0

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412.999634	09	2425.999634	17	2439.499908	25	2452.999786
02	2414.499664	10	2427.999939	18	2440.999939	26	2454.499817
03	2415.999695	11	2429.499969	19	2442.999847	27	2455.999847
04	2418.000000	12	2431.000000	20	2444.499878	28	2457.999756
05	2419.499634	13	2432.999908	21	2445.999908	29	2459.499786
06	2420.999664	14	2434.499939	22	2447.999817	30	2460.999817
07	2422.999969	15	2435.999969	23	2449 .49984	31	2462.999725
08	2424.500000	16	2437.999878	24	2450.999878	32	2464.499756

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Godox	RC-A6	PCB	NA	0	Antenna

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions
Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively..

Pretest Mode	Description	Data/Modulation
Mode 1	TX CH01	MSK
Mode 2	TX CH16	MSK
Mode 3	TX CH32	MSK

Note:
(1) All above mode have been measurement, only worst data was reported.
(2) New battery is used during all test

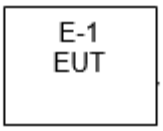
For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 4 : Keeping TX

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Radiated Spurious Emission Test



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.07.29	2020.07.28
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2019.10.09	2020.10.08
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.09	2020.10.08
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2019.10.09	2020.10.08
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	LZ-RF /LzRf-3A3			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.249 limit in the table below has to be followed.

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

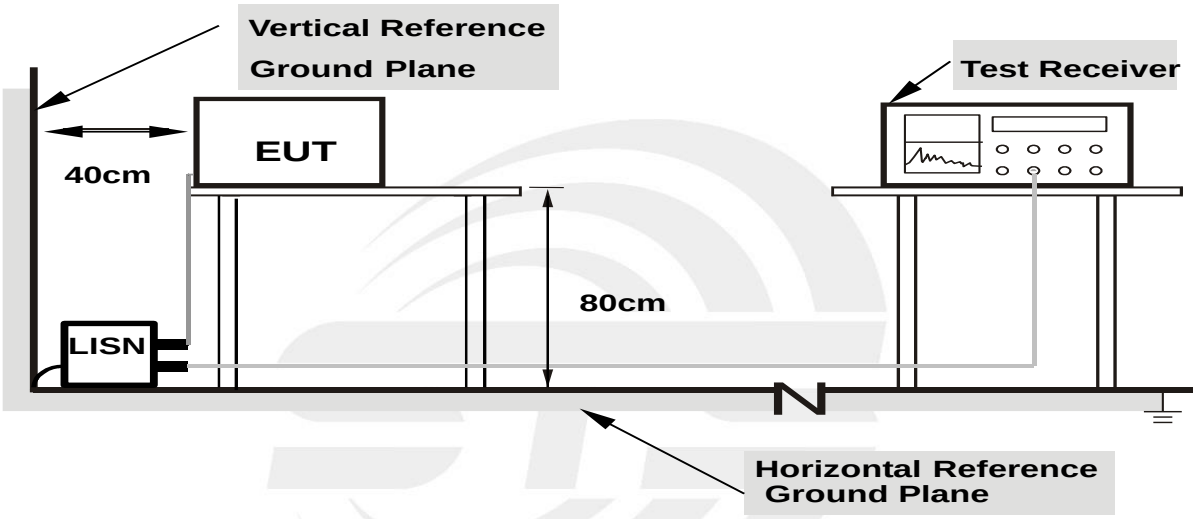
The following table is the setting of the receiver

Receiver Parameters	**Setting**
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

Temperature:	24.7(C)	Relative Humidtity:	60%RH
Test Voltage:	N/A	Phase:	L/N
Test Mode:	N/A		

Note: EUT is only power by battery, So it is not applicable for this tes

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249 and the Part 15.209(a) limit in the table below has to be followed.

Standard FCC 15.209

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3
Above 1000	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	3

Standard FCC 15.249

Frequency of Emission (MHz)	**Field Strength of fundamental (millivolts /meter)**	**Field Strength of Harmonics (microvolts/meter)**
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz/ RB 9kHz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of arotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)

b. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)

c. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.

d. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

e. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform (Below 1GHz)

f. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

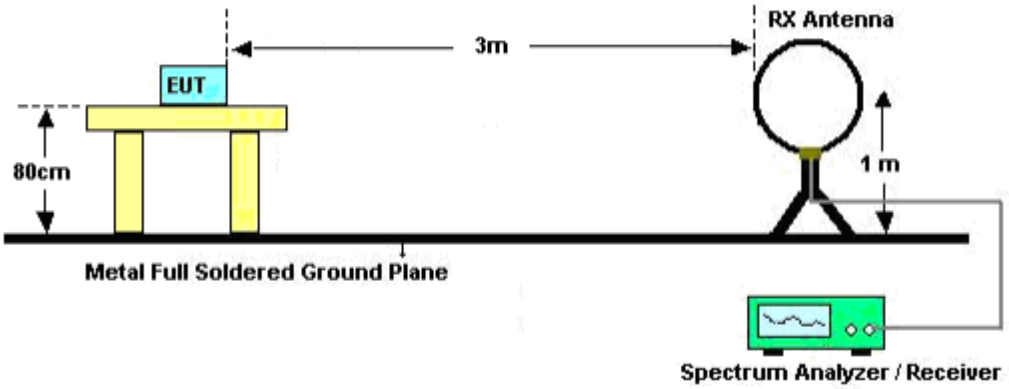
g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

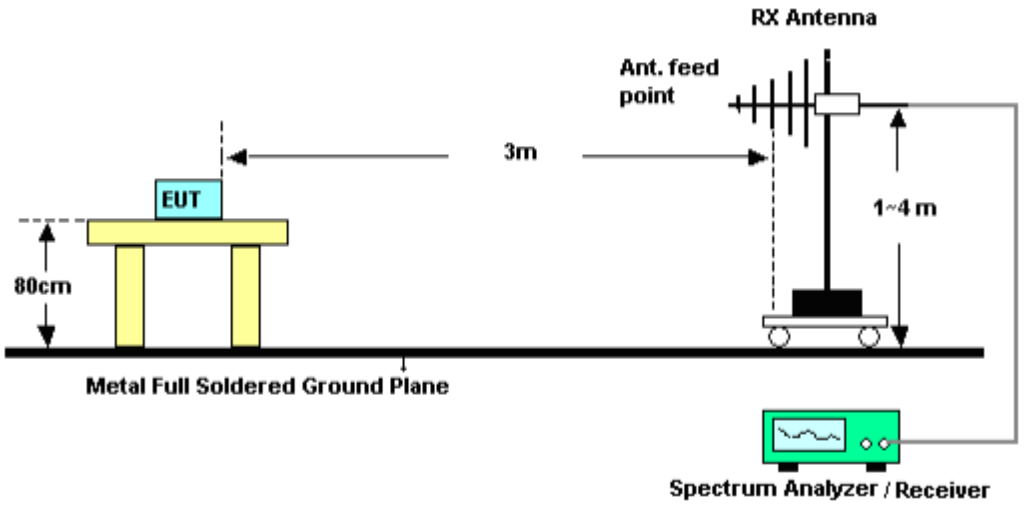
No deviation

3.2.4 TEST SETUP

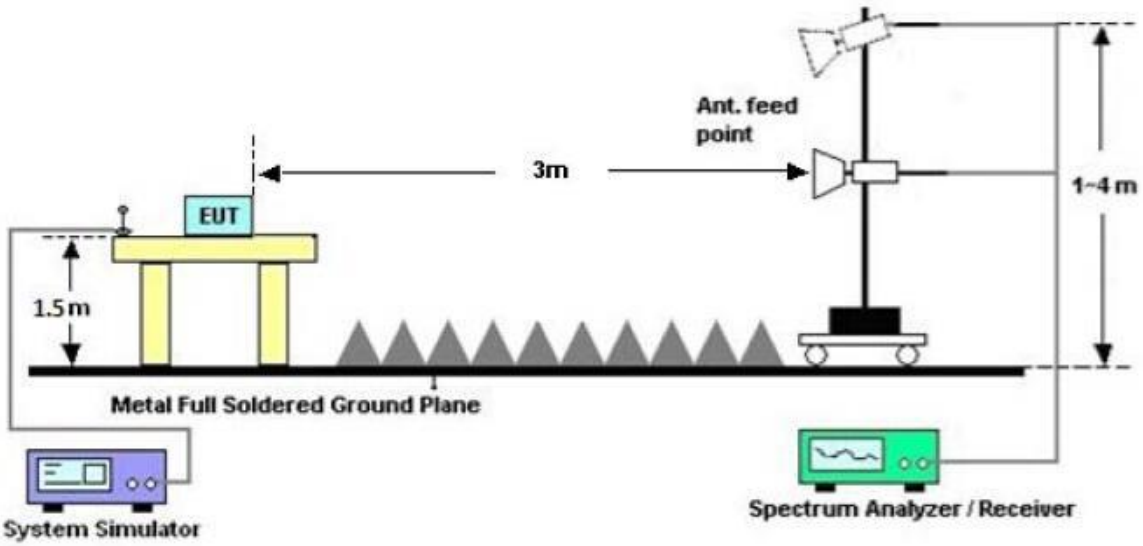
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:
Margin=PL-PK L or AL- AV L; Margin only shown the worst case.
Where
PR = Peak Reading
AR = Average Reading
PL = Peak Level
AL = Average Level
AF = Antenna Factor
PK L = Peak Limit
AV L = AV Limit
For example

Frequency	PR	AR	AF	PL	AL	PK L	AV L	Margin
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dB)
2178	40.23	30.31	9.83	50.06	40.14	74.00	54.00	-13.86

3.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Below 30 MHz

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	DC 3.0V from batery	Polarization:	---
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

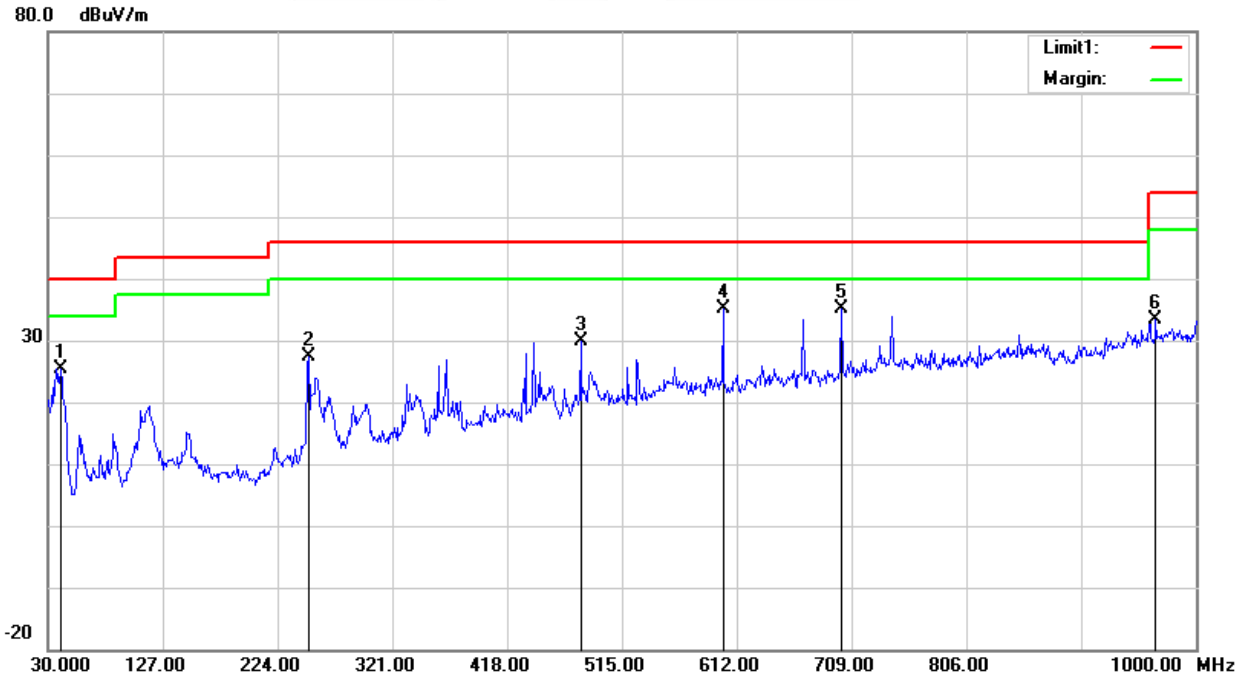
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1000 MHz Radiation Spurious

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	DC 3.0V from batery	Phase:	Horizontal
Test Mode:	Mode 1/2/3(Model 1 worst)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
40.6700	43.80	-18.40	25.40	40.00	-14.60	QP
250.1900	43.59	-16.10	27.49	46.00	-18.51	QP
480.0800	38.64	-8.65	29.99	46.00	-16.01	QP
600.3600	41.07	-5.84	35.23	46.00	-10.77	QP
700.2700	39.28	-4.16	35.12	46.00	-10.88	QP
966.0500	31.56	1.90	33.46	54.00	-20.54	QP

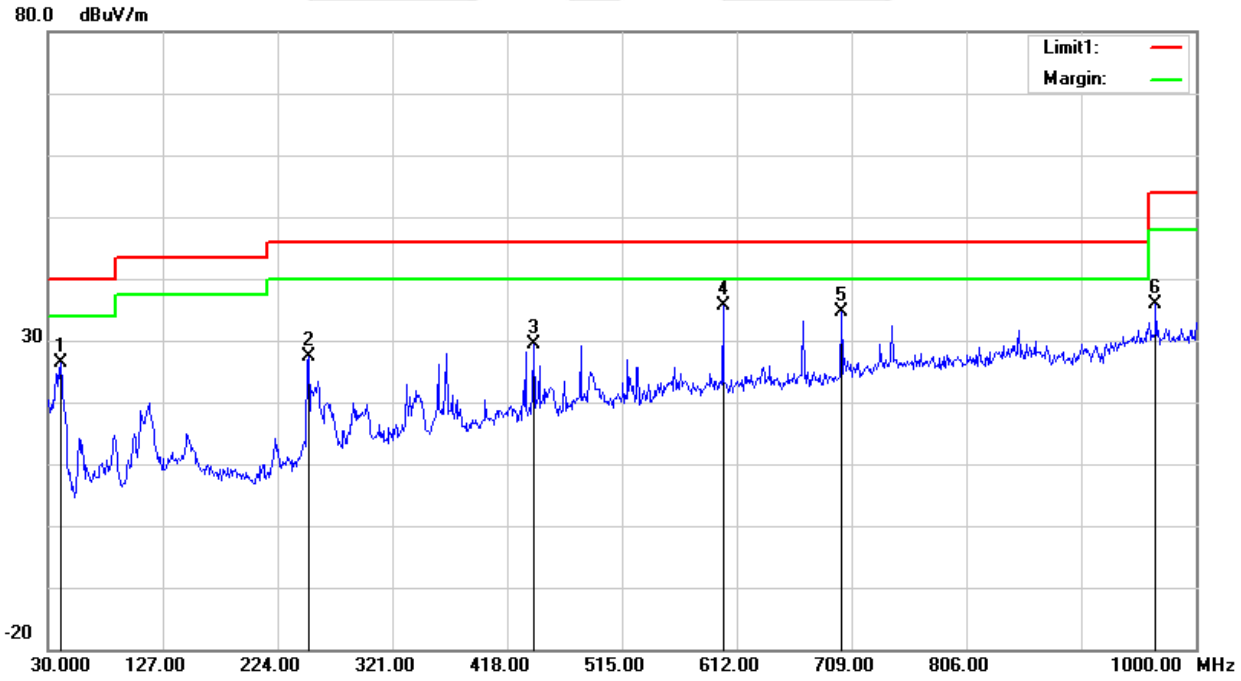
Remark:
1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit



Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	DC 3.0V from batery	Phase:	Vertical
Test Mode:	Mode 1/2/3(Model 1 worst)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
40.6700	44.77	-18.40	26.37	40.00	-13.63	QP
250.1900	43.45	-16.10	27.35	46.00	-18.65	QP
440.3100	39.56	-10.08	29.48	46.00	-16.52	QP
600.3600	41.37	-5.84	35.53	46.00	-10.47	QP
700.2700	38.67	-4.16	34.51	46.00	-11.49	QP
966.0500	33.88	1.90	35.78	54.00	-18.22	QP

Remark:
1. All readings are Quasi-Peak.
2. Margin = Result (Result =Reading + Factor)–Limit



Above 1G Radiation Spurious

MSK-Low

Horizontal

Frequency (MHz)	Peak Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Duty Factor (dB)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1431	48.07	-0.61	47.46	23.31	24.15	74.00	54.00	-6.54	-29.85	-6.54	Horizontal
2436	45.24	4.04	49.28	23.31	25.97	74.00	54.00	-24.72	-28.03	-24.72	Horizontal
9852.5	52.68	5.11	57.79	23.31	34.48	74.00	54.00	-16.21	-19.52	-16.21	Horizontal
14223.75	50.48	11.42	61.90	23.31	38.59	74.00	54.00	-12.10	-15.41	-12.10	Horizontal
17066.25	52.36	10.24	62.60	23.31	39.29	74.00	54.00	-11.40	-14.71	-11.40	Horizontal
20576	51.02	9.36	60.38	23.31	37.07	74.00	54.00	-13.62	-16.93	-13.62	Horizontal

Vertical

Frequency (MHz)	Peak Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Duty Factor (dB)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1249	41.13	-0.92	40.21	23.31	16.90	74.00	54.00	-13.79	-37.10	-13.79	Vertical
2217	42.38	4.28	46.66	23.31	23.35	74.00	54.00	-27.34	-30.65	-27.34	Vertical
7237.5	53.44	1.46	54.90	23.31	31.59	74.00	54.00	-19.10	-22.41	-19.10	Vertical
10905	51.37	8.61	59.98	23.31	36.67	74.00	54.00	-14.02	-17.33	-14.02	Vertical
14417.5	50.87	11.22	62.09	23.31	38.78	74.00	54.00	-11.91	-15.22	-11.91	Vertical
20546.251	51.30	9.31	60.61	23.31	37.30	74.00	54.00	-13.39	-16.70	-13.39	Vertical

MSK-Mid

Horizontal

Frequency (MHz)	Peak Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Duty Factor (dB)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1236	40.91	-1	39.91	23.31	16.60	74.00	54.00	-14.09	-37.40	-14.09	Horizontal
2464.5	42.12	4.02	46.14	23.31	22.83	74.00	54.00	-27.86	-31.17	-27.86	Horizontal
7840	52.34	2.4	54.74	23.31	31.43	74.00	54.00	-19.26	-22.57	-19.26	Horizontal
11037.5	52.00	8.74	60.74	23.31	37.43	74.00	54.00	-13.26	-16.57	-13.26	Horizontal
15171.25	51.19	10.83	62.02	23.31	38.71	74.00	54.00	-11.98	-15.29	-11.98	Horizontal
20583	51.11	9.37	60.48	23.31	37.17	74.00	54.00	-13.52	-16.83	-13.52	Horizontal

Vertical

Frequency (MHz)	Peak Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Duty Factor (dB)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1181	41.66	-1.28	40.38	23.31	17.07	74.00	54.00	-13.62	-36.93	-13.62	Vertical
2464	42.59	4.03	46.62	23.31	23.31	74.00	54.00	-27.38	-30.69	-27.38	Vertical
4875	53.92	-6.54	47.38	23.31	24.07	74.00	54.00	-26.62	-29.93	-26.62	Vertical
11005	50.54	8.86	59.40	23.31	36.09	74.00	54.00	-14.60	-17.91	-14.60	Vertical
15063.75	52.09	10.34	62.43	23.31	39.12	74.00	54.00	-11.57	-14.88	-11.57	Vertical
20595.249	51.82	9.39	61.21	23.31	37.90	74.00	54.00	-12.79	-16.10	-12.79	Vertical

MSK-High

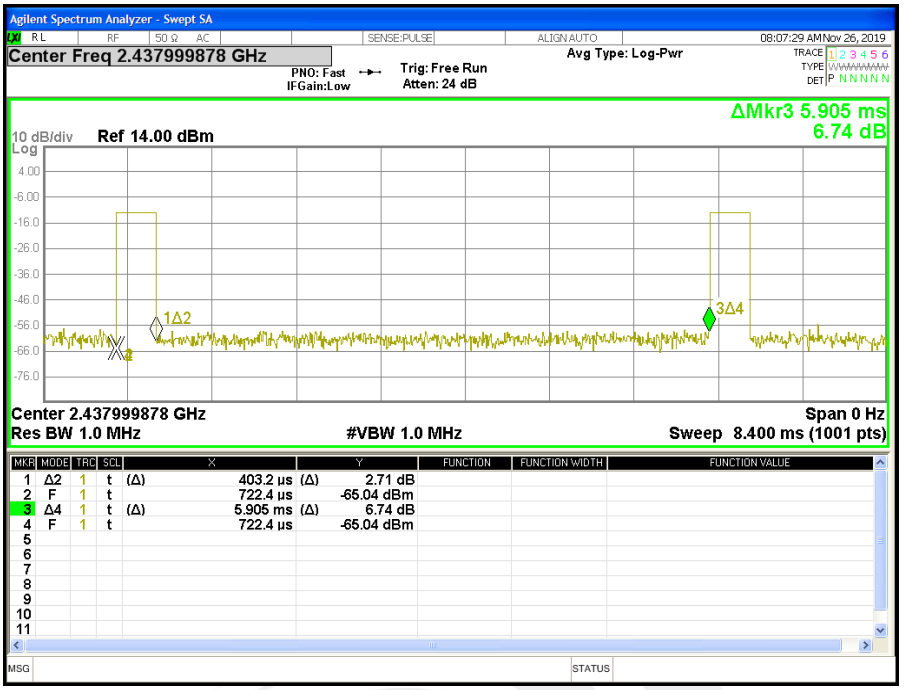
Horizontal

Frequency (MHz)	Peak Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Duty Factor (dB)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1439.5	42.18	-0.6	41.58	23.31	18.27	74.00	54.00	-12.42	-35.73	-12.42	Horizontal
2429	44.71	4.02	48.73	23.31	25.42	74.00	54.00	-25.27	-28.58	-25.27	Horizontal
4927.5	52.81	-6.39	46.42	23.31	23.11	74.00	54.00	-27.58	-30.89	-27.58	Horizontal
11050	51.44	8.7	60.14	23.31	36.83	74.00	54.00	-13.86	-17.17	-13.86	Horizontal
17981.25	51.12	11.5	62.62	23.31	39.31	74.00	54.00	-11.38	-14.69	-11.38	Horizontal
24068.999	47.55	10.56	58.11	23.31	34.80	74.00	54.00	-15.89	-19.20	-15.89	Horizontal

Vertical

Frequency (MHz)	Peak Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Duty Factor (dB)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1159.5	41.09	-1.35	39.74	23.31	16.43	74.00	54.00	-14.26	-37.57	-14.26	Vertical
2219.5	41.54	4.31	45.85	23.31	22.54	74.00	54.00	-28.15	-31.46	-28.15	Vertical
4927.5	57.44	-6.39	51.05	23.31	27.74	74.00	54.00	-22.95	-26.26	-22.95	Vertical
10990	50.98	8.85	59.83	23.31	36.52	74.00	54.00	-14.17	-17.48	-14.17	Vertical
14038.75	51.86	10.23	62.09	23.31	38.78	74.00	54.00	-11.91	-15.22	-11.91	Vertical
20528.751	51.44	8.64	60.08	23.31	36.77	74.00	54.00	-13.92	-17.23	-13.92	Vertical

Duty cycle

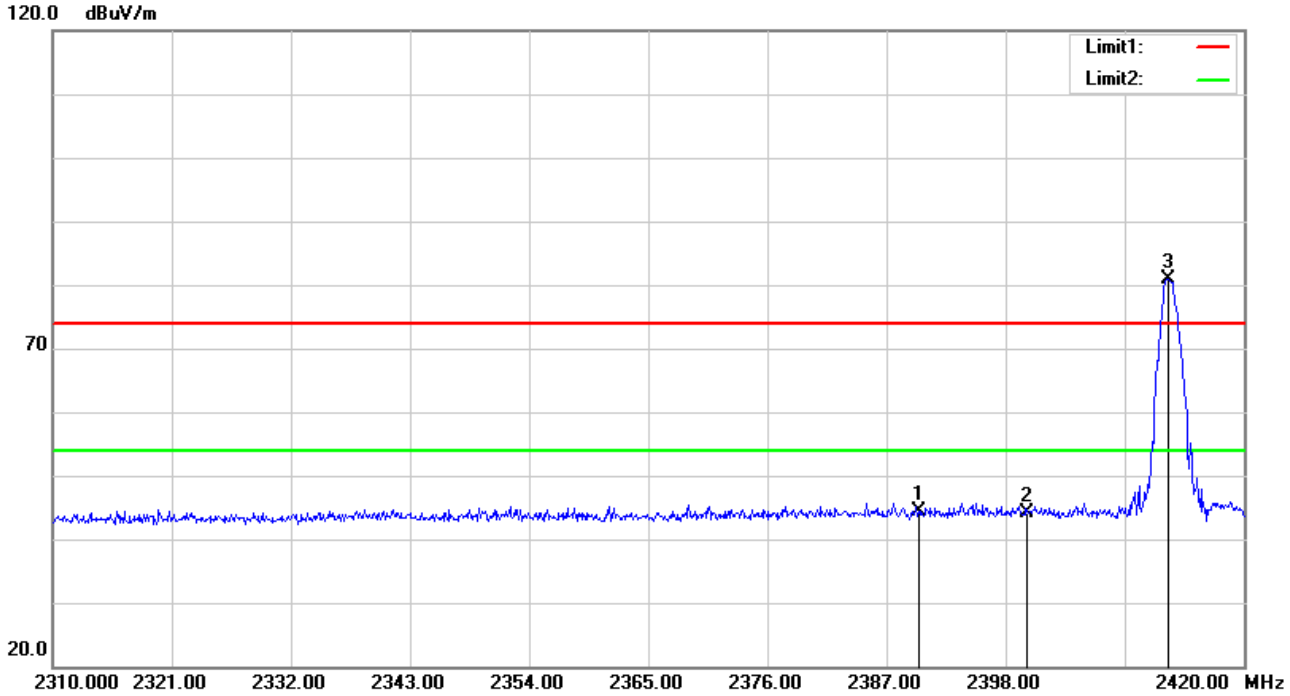


Ton (ms)	Tp (ms)	Duty Factor
0.403	5.905	23.31

Note: Duty Factor=20*LOG10(1/(Ton/Tp))

(Radiation **Band edge)**

MSK-Low
Horizontal

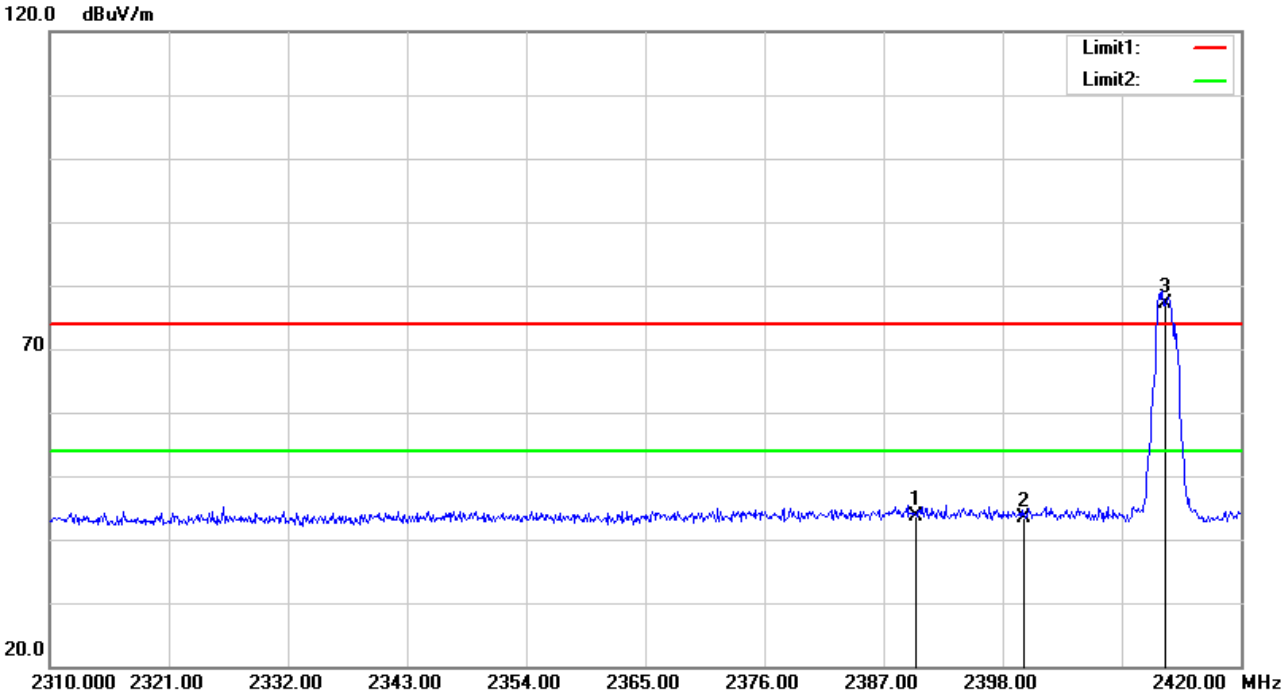


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	40.07	4.34	44.41	74.00	-29.59	peak
2	2400.000	39.64	4.49	44.13	74.00	-29.87	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
3	2413.000	76.37	4.49	-	80.86	114.00	-33.14	peak
4	2413.000	76.37	4.49	23.31	57.55	94.00	-36.45	AV

Vertical



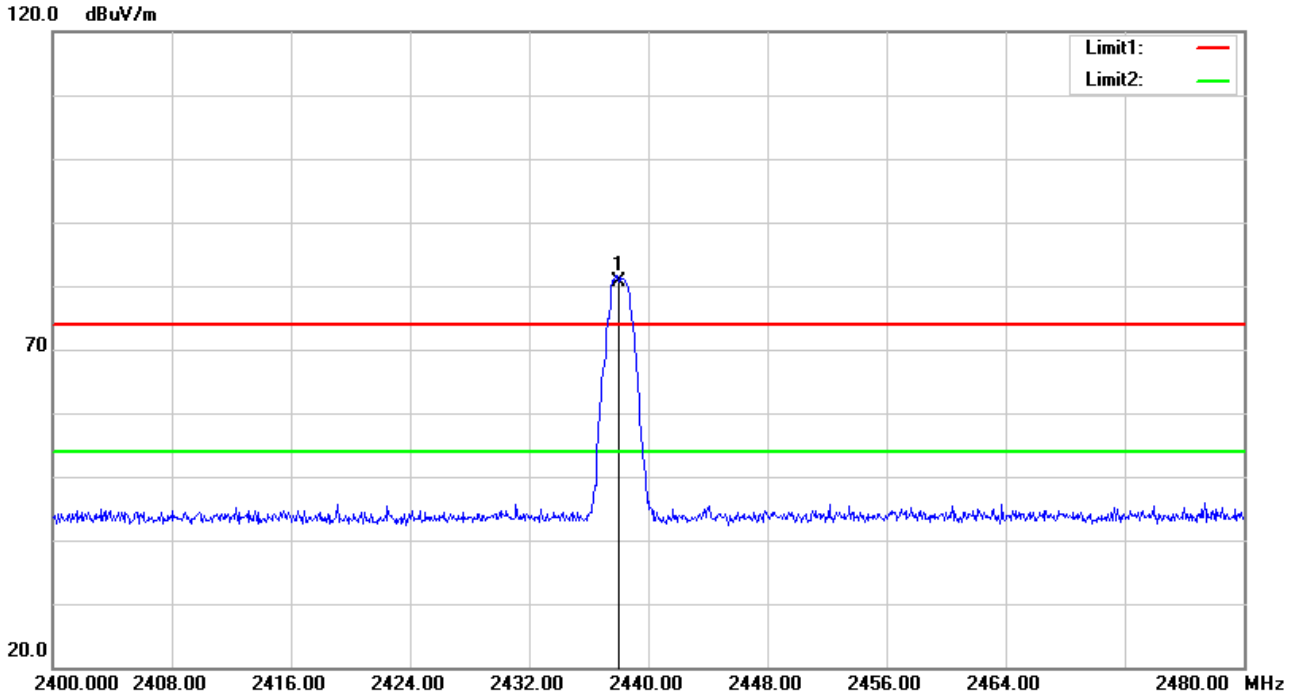
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	39.25	4.34	43.59	74.00	-30.41	peak
2	2400.000	38.91	4.49	43.40	74.00	-30.60	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
3	2413.000	72.53	4.49	-	77.02	114.00	-36.98	peak
4	2413.000	72.53	4.49	23.31	53.71	94.00	-40.29	AV

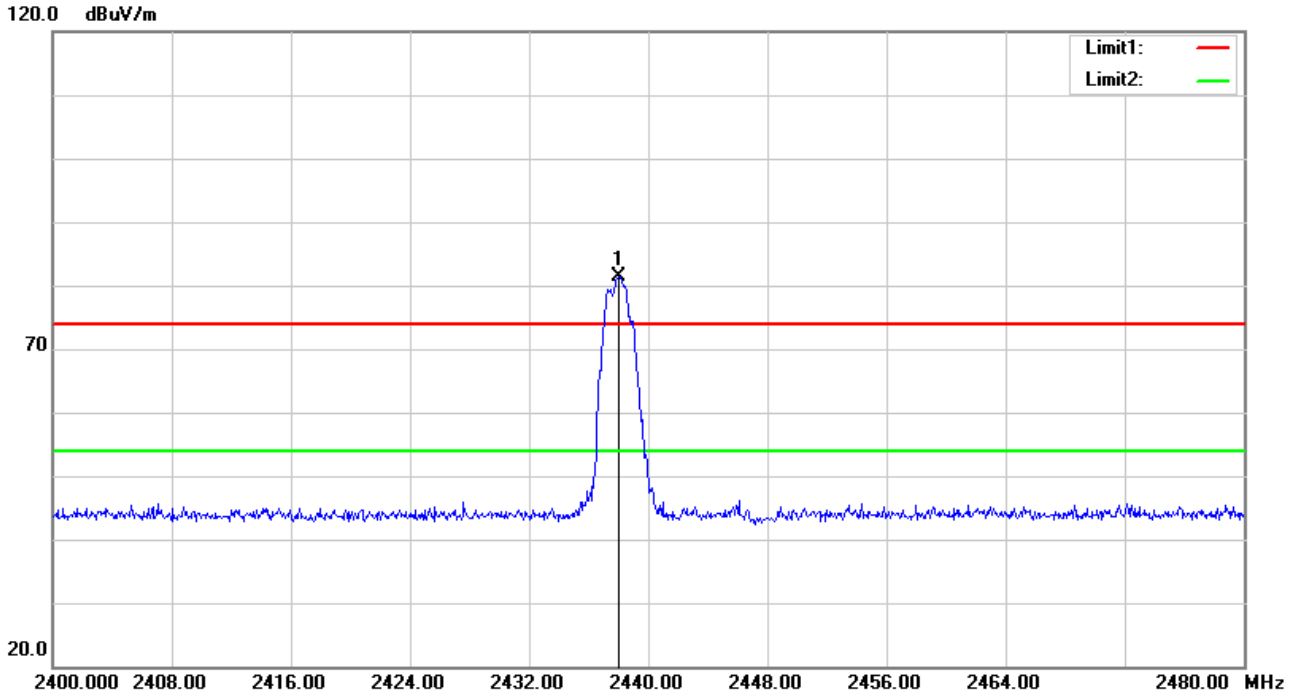
MSK-Mid

Horizontal



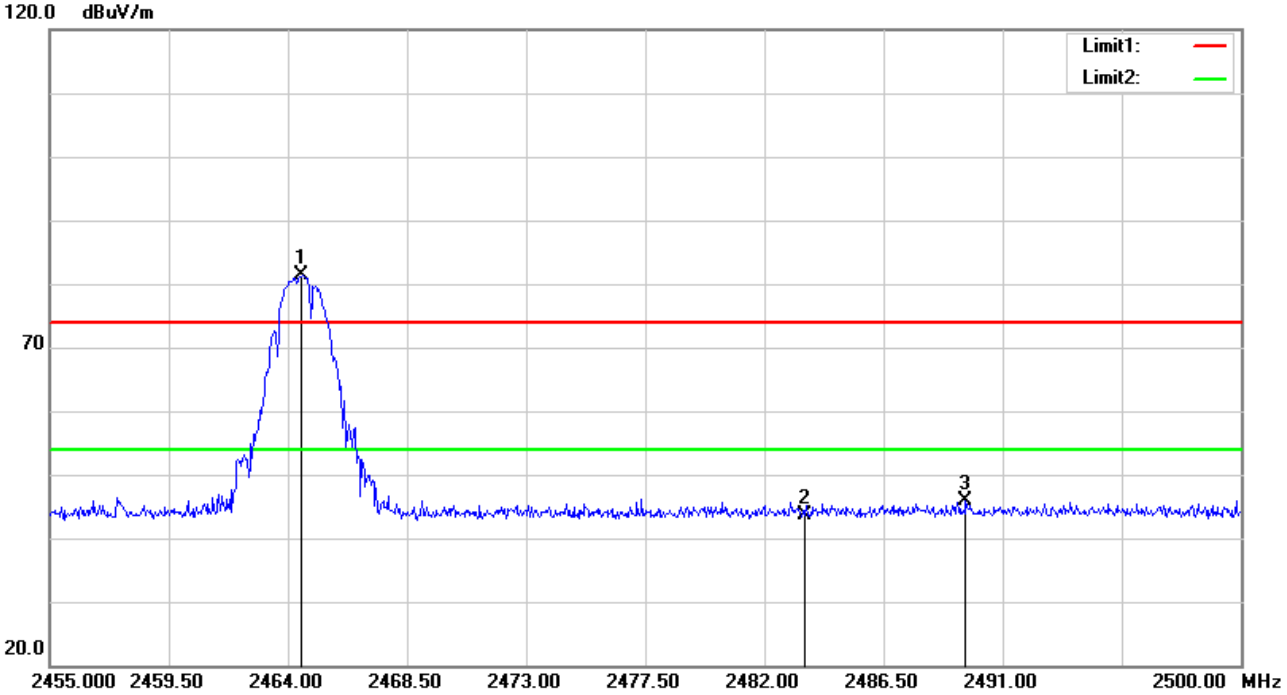
No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2438.000	76.80	4.51	-	80.59	114.00	-33.41	peak
2	2438.000	76.80	4.51	23.31	57.28	94.00	-36.72	AV

Vertical



No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2438.000	76.80	4.51	-	81.31	114.00	-32.69	peak
2	2438.000	76.80	4.51	23.31	58.00	94.00	-36.00	AV

MSK-High
Horizontal

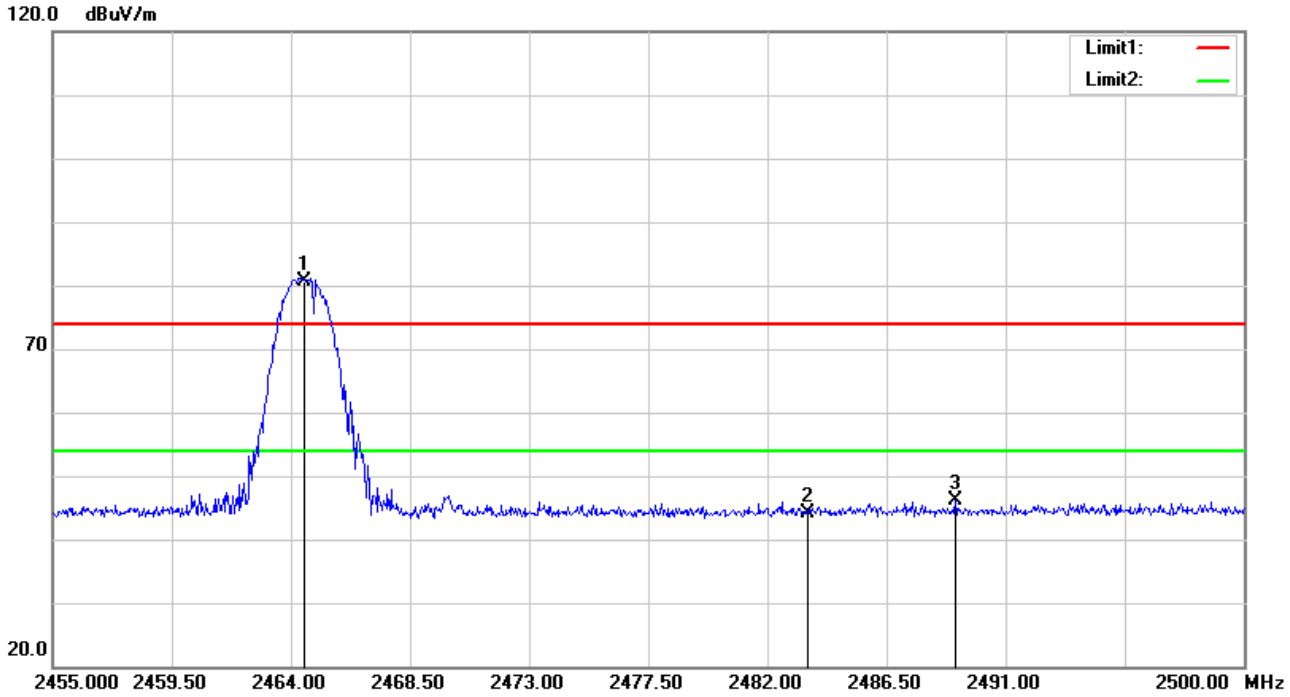


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
2	2483.500	38.91	4.60	43.51	74.00	-30.49	peak
3	2489.605	41.23	4.62	45.85	74.00	-28.15	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2464.500	76.75	4.56	-	81.31	114.00	-32.69	peak
4	2464.500	76.75	4.56	23.31	58.00	94.00	-36.00	AV

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
2	2483.500	39.51	4.60	44.11	74.00	-29.89	peak
3	2489.110	41.61	4.62	46.23	74.00	-27.77	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2464.500	76.75	4.56	-	80.63	114.00	-33.37	peak
4	2464.500	76.75	4.56	23.31	57.32	94.00	-36.68	AV

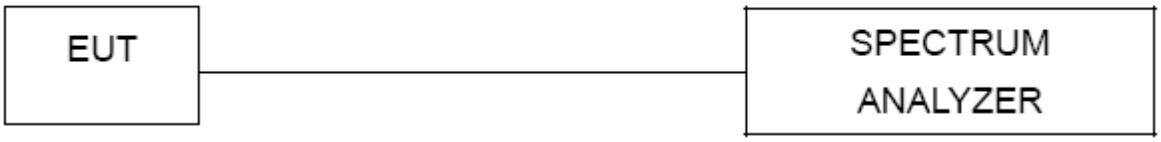
4. BANDWIDTH TEST

4.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting : RBW= 30KHz, VBW≧RBW, Sweep time = Auto.

4.2 TEST SETUP



4.3 EUT OPERATION CONDITIONS

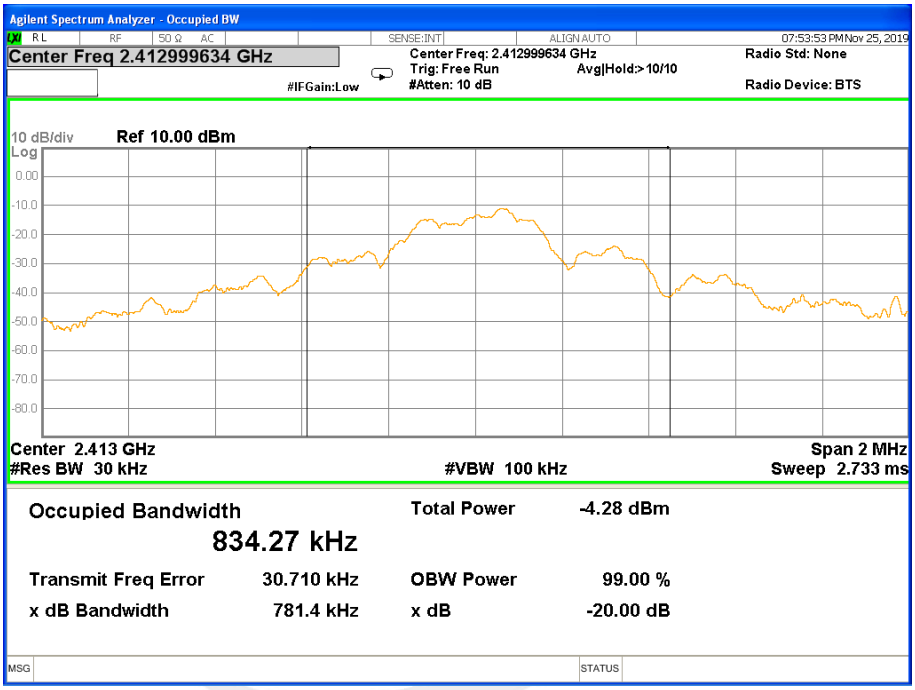
TX mode.

4.4 TEST RESULTS

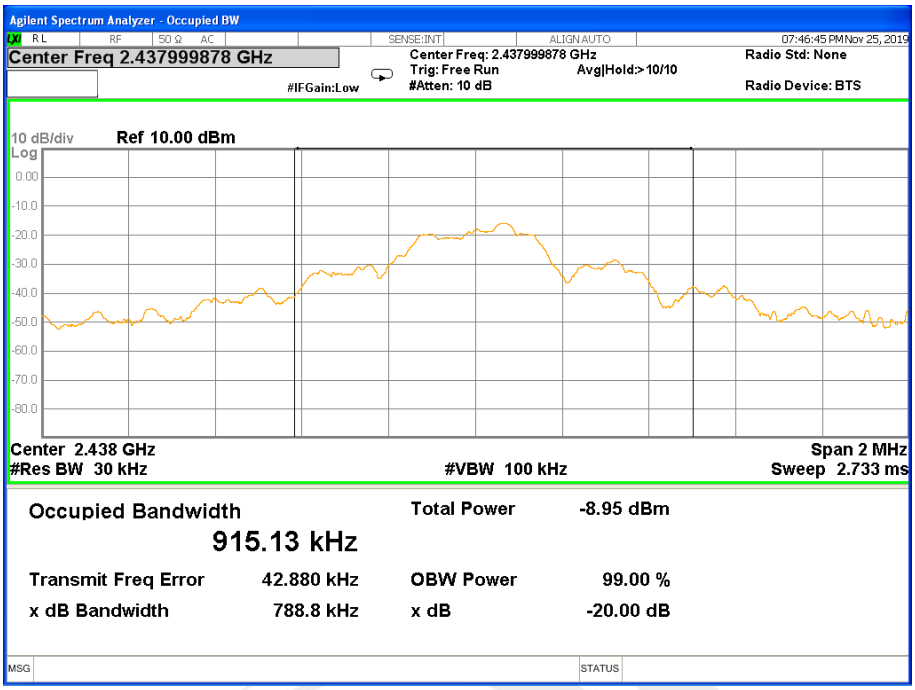
Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 3.0V from batery		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% Bandwidth (MHz)
CH01	2413	0.781	0.834
CH16	2438	0.789	0.915
CH32	2464	0.780	0.822

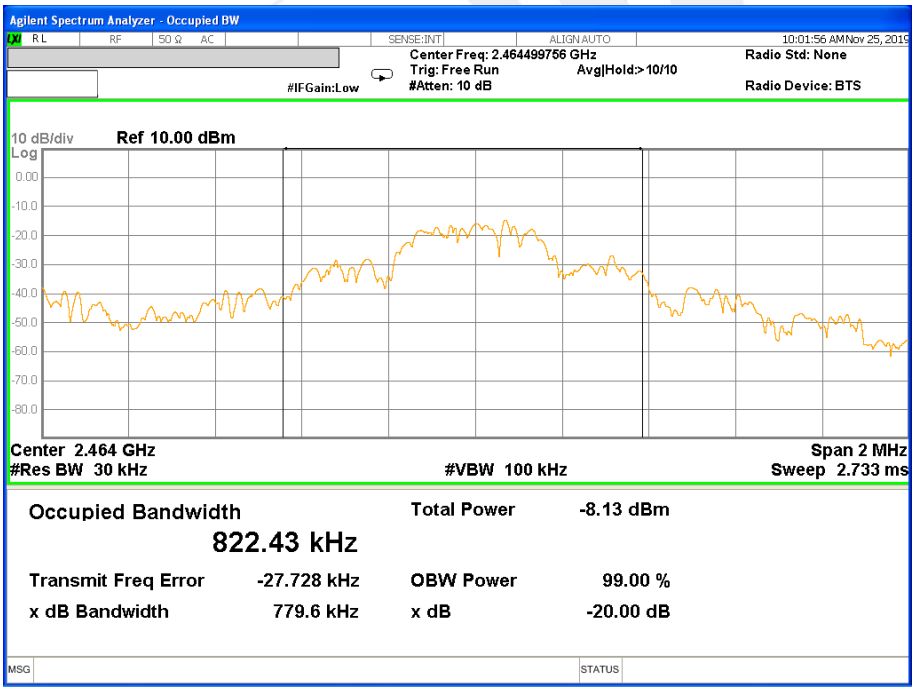
The Lowest Channel:2413MHz



The Middle Channel:2438MHz



The High Channel: 2464MHz



5. ANTENNA REQUIREMENT

5.1 STANDARD REQUIREMENT

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2 EUT ANTENNA

The EUT antenna is PCB Antenna.It conforms to the standard requirements.

APPENDIX- PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※